Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)
RIVER MILE 55
Little Stony Point
Pete Salmansohn & Lisa Mechaley of the Hudson Highlands Land Trust
Mark Patinella, Highland High School
17 students - 12th grade

Location: Little Stony Point beach, Cold Spring, Putnam County
Area: On the beach at Little Stony Point, facing Beacon across from Storm King
Surrounding Land Use: 50% forested, 50% beach
Sampling Site: beach area
Plants in area: no plants in water
Water depth: 45 cm
River Bottom –

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Time</th>
<th>Reading 1</th>
<th>Reading 2</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air Temperature</td>
<td>10:37</td>
<td>15°C 59°F</td>
<td>12:33PM 16°C 61°F</td>
<td></td>
</tr>
<tr>
<td>Wind Speed</td>
<td>8 Beaufort</td>
<td>7.5 kts</td>
<td>North</td>
<td></td>
</tr>
<tr>
<td>Cloud Cover</td>
<td>Partly cloudy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weather today</td>
<td>Overcast, no rain, windy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weather recently</td>
<td>Rain and significant wind over last 3 days</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Water</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>12:50 PM</td>
<td>17.5°C 63°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Choppy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Turbidity – drop kit</strong></td>
<td>11:32 AM</td>
<td>72 JTU 50 JTU 65 JTU</td>
<td>62.3 average JTU</td>
<td></td>
</tr>
<tr>
<td><strong>Chlorophyll</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chemical</strong></td>
<td><strong>Time</strong></td>
<td><strong>Value</strong></td>
<td><strong>Units</strong></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>----------</td>
<td>-----------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>DO (ampules)</td>
<td>12:10 PM</td>
<td>17°C</td>
<td>8 mg/L</td>
<td>70% saturated</td>
</tr>
<tr>
<td>pH</td>
<td>10:48 AM</td>
<td>7.3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>11:23 AM</td>
<td>7.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>12:10 PM</td>
<td>7.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphate</td>
<td>10:37 AM</td>
<td>0.5 ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nitrate</td>
<td></td>
<td>1.0 ppm</td>
<td>0.75 ppm Average</td>
<td></td>
</tr>
<tr>
<td>Alkalinity</td>
<td>10:56 AM</td>
<td>1.8 quantab unit</td>
<td>53 ppm chloride</td>
<td></td>
</tr>
<tr>
<td>Salinity Test strips</td>
<td></td>
<td>1.8</td>
<td>1.8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(per Tom Lake)</td>
<td>&lt;1.0 ppt</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fish Catch</strong></td>
<td><strong>Number Caught</strong></td>
<td><strong>Species</strong></td>
<td><strong>CPUE</strong></td>
<td><strong>Seine</strong></td>
</tr>
<tr>
<td>Seine net 20 feet, X 4 ft. X 50 yrd pull</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Also dip net</td>
<td>2</td>
<td>Pumpkinseed</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Spottail shiner</td>
<td>13.5 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>White Perch</td>
<td>6 inches</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>Bullhead</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Herring</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Striped Bass</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tides</strong></td>
<td><strong>Time</strong></td>
<td><strong>Height</strong></td>
<td><strong>Rate</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:20 AM</td>
<td>rising</td>
<td>5.1 cm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:40 AM</td>
<td>Rising</td>
<td>12.7 cm</td>
<td>.38 cm/min</td>
</tr>
<tr>
<td></td>
<td>11:15 AM</td>
<td>Rising</td>
<td>22.9 cm</td>
<td>.29 cm/min</td>
</tr>
<tr>
<td></td>
<td>11:40 AM</td>
<td>Rising</td>
<td>35.6 cm</td>
<td>.5 cm/min</td>
</tr>
<tr>
<td></td>
<td>12:11 PM</td>
<td>Rising</td>
<td>45.7 cm</td>
<td>.34 cm/min</td>
</tr>
<tr>
<td></td>
<td>12:28 PM</td>
<td>Rising</td>
<td>48.3 cm</td>
<td>.15 cm/min</td>
</tr>
<tr>
<td></td>
<td>12:47 PM</td>
<td>Rising</td>
<td>53.3 cm</td>
<td>.25 cm/min</td>
</tr>
<tr>
<td><strong>Currents (no time listed)</strong></td>
<td><strong>Time</strong></td>
<td><strong>Cm/sec</strong></td>
<td><strong>Cm/sec knots</strong></td>
<td><strong>N/S</strong></td>
</tr>
<tr>
<td></td>
<td>10:37 AM</td>
<td>720</td>
<td>12</td>
<td>.24</td>
</tr>
<tr>
<td></td>
<td>11:00 AM</td>
<td>20</td>
<td>.33</td>
<td>.0066</td>
</tr>
<tr>
<td></td>
<td>11:10 AM</td>
<td>144</td>
<td>2.4</td>
<td>.046</td>
</tr>
<tr>
<td></td>
<td>12:05 PM</td>
<td>136</td>
<td>21.7</td>
<td>0.434</td>
</tr>
<tr>
<td></td>
<td>12:33 PM</td>
<td>16.3</td>
<td>.326</td>
<td></td>
</tr>
<tr>
<td><strong>Core Description</strong></td>
<td><strong>Rare</strong></td>
<td><strong>Common</strong></td>
<td><strong>Abundant</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mud</td>
<td>Gravel, pebbles</td>
<td>Sand</td>
<td></td>
</tr>
<tr>
<td></td>
<td>7 inches total length</td>
<td>Nothing living in it</td>
<td>Not much oxidation occurred</td>
<td></td>
</tr>
</tbody>
</table>